

CLAIMS:

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1. An image-sensing display device comprising:
- an image display part including an image display panel and lighting means for illuminating the panel, and

5 an image-sensing part arranged on top of the display panel and including a two-dimensional array of photosensitive elements, characterized in that the display panel is a reflective panel and in that the lighting means are front-lighting means which are arranged in front of the array of photosensitive elements.

10 2. An image-sensing display device as claimed in claim 1, wherein the display panel comprises a transparent front plate, characterized in that the array of photosensitive elements is arranged under the front plate.

15 3. An image-sensing display panel as claimed in claim 1, wherein the display panel comprises a transparent front plate, characterized in that the array of photosensitive elements is arranged on the front plate.

20 4. An image-sensing display panel as claimed in claim 1, 2 or 3, wherein the lighting means comprise a front light guide, characterized in that lens means are integrated in the light guide.

5. An image-sensing display device as claimed in claim 1, 2 or 3, characterized in that lens means are arranged on the front plate of the display panel.

25 6. An image-sensing display device as claimed in any one of claims 1 to 5, characterized in that the array of photosensitive elements is constituted by a CCD sensor.

7. An image-sensing display device as claimed in any one of claims 1 to 5, characterized in that the array of photosensitive elements is constituted by a C-MOS image sensor.

8. An image-sensing display device as claimed in any one of claims 1 to 7, characterized in that the display panel is an LCD panel.

5 9. An image-sensing display device as claimed in claim 8, characterized in that the material of the LCD panel is a cholesteric liquid crystal.

10. An image-sensing display device as claimed in claim 8, characterized in that the material of the LCD panel is twisted nematic liquid crystal.

10 11. An image communication apparatus comprising image display means, including an image display panel, and camera means, including an image sensor, characterized in that the image display panel and the image sensor are constituted by an image-sensing display device as claimed in any one of claims 1 to 10.

15 12. A videophone apparatus comprising a voice communication part and an image communication part, wherein the image communication part comprises image display means, including an image display panel, and camera means, including an image sensor, characterized in that the image display panel and the image sensor are constituted by an image-sensing display device as claimed in any one of claims 1 to 10.

20 13. A videophone apparatus as claimed in claim 12 constructed as a mobile apparatus.

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